

In the Claims

Please cancel claim 1. Please amend the remaining claims as follows:

^{D1}
~~2-20.~~ (currently amended) A stent comprising

at least one strut, the at least one strut has a transverse cross section, the transverse cross section having a top circumferential side, a bottom circumferential side, a right side and a left side, wherein the top and bottom circumferential sides are substantially flat, and the left and rights sides are substantially curved.

3- 21. (currently amended) The stent of claim ~~2~~ 20 wherein the strut has a plurality of straight sections joined by a plurality of crown sections.

4- 22. (currently amended) The stent of claim ~~2~~ 20 wherein the strut is made of metal.

^{B,}
5- 23. (currently amended) The stent of claim ~~4~~ 22 wherein the strut is electro-polished.

6- 24. (currently amended) The stent of claim ~~2~~ 20 wherein the stent is fused to a second stent. ^{fig 17}

7- 25. (currently amended) The stent of claim ~~2~~ 20 wherein ~~5~~ the second stent further comprises at least one second stent strut, the at least one second stent strut has a second stent transverse cross section, the second stent transverse cross section having a second stent top circumferential side, a second stent bottom circumferential side, a second stent right side and a second stent left side, wherein the second stent top and second stent bottom circumferential sides are substantially flat, and the second stent left and second stent right sides are substantially curved. ^{fig 17}

¹¹²
8- 26. (currently amended) The stent of claim ~~2~~ 20 wherein the cross section is ellipsoidal.

¹¹²
9- 27. (currently amended) The stent of claim ~~2~~ 20 wherein the cross section is elliptorectangular.

10- 28. (currently amended) The stent of claim ~~2~~ 20 wherein the stent is self expanding. ^{al 5}

~~11~~¹² 11. 29. (currently amended) The stent of claim ~~2~~ 20 wherein the bottom circumferential side joins the left side through a smooth rounded edge.

~~12~~¹³ 12. 30. (currently amended) The stent of claim ~~2~~ 20 wherein the top circumferential side joins the left side through a smooth rounded edge.

~~13~~ 13. 31. (currently amended) A system for treating a vessel lumen comprising:

a stent having a lumen there through;

a catheter at least partially extending through the lumen; wherein

the stent is fashioned from at least one strut, the at least one strut having a transverse cross

section, the transverse cross section having a top circumferential side, a bottom circumferential

side, a right side and a left side, wherein the top and bottom circumferential sides are

substantially flat, and the left and right sides are substantially curved.

~~14~~ 14. 32. (currently amended) The stent of claim ~~13~~ 31 wherein the catheter is a balloon catheter.

~~15~~¹⁶ 15. 33. (currently amended) The stent of claim ~~13~~ 31 wherein the cross section is ellipsoidal.

~~16~~¹⁷ 16. 34. (currently amended) The stent of claim ~~13~~ 31 wherein the bottom circumferential side joins the left side through a smooth rounded edge.

~~17~~¹⁸ 17. 35. (currently amended) The stent of claim ~~13~~ 31 wherein the top circumferential side joins the left side through a smooth rounded edge.

18. 36. (currently amended) The stent of claim ~~13~~ wherein further comprising a second stent section, the second section coupled to the first section.

~~19~~ 19. 37. (currently amended) A stent comprising

at least one strut, the at least one strut has a transverse cross section, the transverse cross section having a top side, a bottom side, a right side and a left side, wherein the top side joins

the left and right sides through a smooth rounded edge, wherein the top side is substantially flat.

~~19.~~ 38. (currently amended) The stent of claim ~~13~~ 37 wherein the bottom side is substantially flat.

car ¹¹²~~20.~~ 39. (currently amended) The stent of claim ~~13~~ 37 wherein the left and rights sides are substantially curved.

B₁ ~~21.~~ 40. (currently amended) The stent of claim ~~13~~ 37 wherein the left and rights sides are substantially flat.

~~22.~~ 41. (currently amended) The stent of claim ~~13~~ 37 wherein the bottom side joins the left side through a smooth rounded edge.